FACULTY AWARDS & ACCOMPLISHMENTS (2023-24)

- **Dr. Suman Kharbanda** "Presented and received best paper award for the research paper 'Strategies for Promoting Consumption of Eco-Friendly Products among Consumers: Learning from Findings of an Empirical Study' at International Conference 'Innovative Sustainable Practices: A Global Multidisciplinary Approach' June 2023 organised by Assam Kaziranga University and Inspira Research Association, Jaipur"
- **Prof. Darshan Pandey** "Honoured with a National level award 'Pandit Amba Sahay smriti Sahitya Samman' presented by Nirmala Smriti Sahityik Samiti on September 24, 2023"
- **Dr. Jyoti Sharma** "Honoured with Orchha Samman 2023 by 'Rudrani kala gram evan shodh sansthan', Orchha, Madhya Pradesh at a program in Orchha held on April 09, 2023"
- **Dr. Deepika Yadav** "Honoured with The ISSN (The International Society for Scientific Network) Award for, "International Best Researcher for excellence in Environmental Biology based on the "Bioaerogels" research paper on May 07, 2023 during ISSN International Research Awards and Congress (IIRAC-2023) in collaboration with World Research Council, Times of Research & Z24 News"
- **Dr Preeti Kumari** "Awarded the Wise Postdoctoral Fellowship (Women Scientist A) 2024 by DST, Govt. of India"

CO-AUTHORED BOOKS:

- **Dr. Jayita Thakur** co-authored the Book "Darshan Malik, Nandita Narayanasamy, V A Pratyusha, Jayita Thakur, Nimisha Sinha. Textbook of Nutritional Biochemistry. 1st edition 2023. Published by Springer Verlag, Singapore. ISBN10:9811941491"
- **Dr. Sunita Singh** co-authored the Book "Singh M. and Singh S. (2023) The Chemistry of Friccohesity for Industrial Nanoformulations, ISBN-13:978-1-5275-9363-3 by Cambridge Scholars Publishing, UK"
- **Dr. Priyanka Kumari** and Dr Pratibha Kumari Singh (2024), "National Education Policy 2020: Understanding and Way Forward" published by Notion press.com
- **Dr. Suman Kharbanda** authored a book titled "Awareness and Purchase behaviour of urban Consumers for green Products". ISBN No. 978-93-94417-69-4. Publisher: Dhanpat Rai Publications [2023]
- **Kiran Chaudhary**, Mansaf Alam and Narayan C. Debnath, Intelligent Data Analytics in Business, ISBN-10: 981995357X, ISBN-13: 978-9819953578, September 7, 2023, Springer Verlag, Singapore; 1st ed. 2023.
- **Kiran Chaudhary** and Mansaf Alam, AI-Based Data Analytics: Applications for Business Management, ISBN-10: 1032411767, ISBN-13: 978-1032411767, January 24, Taylor and Francis.
- Rai S.C., and **Mishra P.K**. (2023) Traditional Ecological Knowledge of Resource Management in Asia, Springer Nature, Cham Switzerland ISBN: 978-3-031-16840-6 (https://doi.org/10.1007/978-3-031-16840-6)
- **Dr. Bharti** published a book entitled "Electrical Circuit Analysis", ISBN: 978-81-953682-0-4, Akash books New Delhi in May 2023
- **Dr. Mamta** published a book entitled "Electrical Circuit Analysis", ISBN: 978-81-953682-0-4, Akash books New Delhi in May 2023

- **Dr. Mamta** published a book entitled "Analog Electronics", ISBN: 978-81-953682-6-6, Akash books New Delhi in Feb 2024.
- **Dr. Neetu Verma** published a book entitled "ANALOG ELECTRONICS", ISBN: 978-81-953682-6-6, Akash books New Delhi in Feb 2024.

PATENTS

Dr. Abhijeet Mishra

- Published National Patent entitled "Trans-Differentiation Of A Subpopulation Of Wharton Jelly Derived Mesenchymal Stem Cells (Wj-Mscs) In Human Astrocytes For Possible Treatment Of Neurodegenerative Disorders" (Application No.202311032938 A, Publication date: 23/06/2023).
- Registered International (UK-Design Patent) for "Intelligent Surgical Microscope" (Registration no- 6304727, Grant date: 22/08/2023)

Dr. Ranganth Ravi

 Registered International (UK-Design Patent) for "Intelligent Surgical Microscope" (Registration no- 6304727, Grant date: 22/08/2023)

Dr. Priyanka Kumari

• "Synthesis Of Clay-Based Nanoscale Pigments," Dr. Chandra Mohan, Dr. Neeraj Kumari, Dr. Mozhgan Afshari, Dr. Lata Vodwal, Dr. Priyanka Dhaka, Ms. Jenifer Robinson, The Patent Office Journal No. 37/2023 Dated 15/09/2023"

Dr. Krishan Kant Singh Gautam

• Krishan Kant Singh Gautam, Kapil Kumar patent granted entitled "A Two-Dimensional Uniform Linear Array-Based Multiple Signal Classification System For The Direction-Of-Arrival Estimation", March 21, 2023. Patent No. 202023100675.

RESEARCH PUBLICATIONS

DEPARTMENT OF BIOCHEMISTRY

- Kumar R, Varshney S, Adhana S, Pandey A, Mittal A, **Baweja R**, Khanna A & Chaudhry U. Bacterial contamination and associated antibiotic resistance in Fresh Produce: A comparative study between retail outlets and local markets. Journal of Advanced Zoology. ISSN: 0253-7214. Volume 44 Issue 5 Year 2023 Page 1351-1361
- Kumar S, Ravi R, Sahu T, Kumar Jha V, **Baweja R**, Jha AK. Metal Catalyzed Oxidative C H Bond Functionalization of 1, 4 Benzoxazinones. Asian Journal of Organic Chemistry.:e202400028
- Malik P, **Singh S**, Singh M. (2024); Water balancing actions of sodium and potassium chlorides for curcumin antioxidant activities in oil-water nanoformulations, Journal of Molecular Liquids, Vol. 398, 124266.
- Koranne A, Turakhia S, Jha VK, Gupta S, Ravi R, **Mishra A**, Aggarwal AK, Jha CK, Dheer N, Jha AK. The Mizoroki–Heck reaction between in situ generated alkenes and aryl halides: cross-coupling route to substituted olefins. RSC Advances. 2023 Jul 7;13(32):22512

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- Alokika A, Kuhad RC, Rapoport A, Kumar V, Singh D, Kumar V, Tiwari SK, Ahlawat S & Singh B. (2024) Biological pretreatment of lignocellulosic biomass: An environment-benign and sustainable approach for conversion of solid waste into value-added products, Critical Reviews in Environmental Science and Technology, 54:10,771-796 (IF 12.60) https://doi.org/10.1080/10643389.202 3.2277670
- Sarangle Y, Bamel K & Purty RS. (2023) Identification of Acetylcholinesterase Like Gene Family and Its Expression Under Salinity Stress in Solanum lycopersicum. J Plant Growth Regul. https://doi.org/10.1007/s00344-023-11152-3
- Rani N, Bamel JS, Shukla A, Pathak SK, Singh RN, Singh N, Gahlot S, Garg S & Bamel K. (2023) Linear Mathematical Models for Yield Estimation of Baby Corn (Zea mays L.) Plant Science Today, 11(1): 166–75 https://doi.org/10.14719/pst.2618
- Rani N, Garg S, Bamel K, Bhatt V, Sharma S, Mishra SK, Saini N & Saloni (2023) A
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 Maturity Detection Techniques. Plant Science Today, 11(1):418- 32
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- Rani N, Bamel K, Saini N, Gupta S, Nath RA, Sharma S & Mishra I. (2023) Non-destructive Fruit Volume Estimation using Digital Image Processing Techniques: A Systematic Review, Bulletin of Environment, Pharmacology and Life Sciences (accepted for publication in 13(1) December issue 2023).

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- Koranne A, Turakhia S, Jha VK, Gupta S, Ravi R, Mishra A & Aggarwal AK.
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- Kumar R, Chhikara BS, Zeybekler SE, Gupta DS, Kaur G, Chhillar M, **Aggarwal AK**, & Rahdar A. (2023), Nanotoxicity of multifunctional stoichiometric cobalt oxide nanoparticles (SCoONPs) with repercussions toward apoptosis, necrosis, and cancer necrosis factor (TNF-α) at nano-biointerfaces, Toxicology Research, 12 (5), 716-740
- Gupta T, Ratandeep, Dutt M, Kaur B, Punia S, Sharma S, Sahu PK, Pooja & Saya L (2024) Graphene-based nanomaterials as potential candidates for environmental mitigation of pesticides, Talanta, 272, 125748.
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- Saini KK, Rani R, Muskan, **Khanna N**, Mehta B & Kumar K. (2023) An overview of recent advances in Hantzsch's Multicomponent Synthesis of 1, 4-Dihydropyridines: A Class of Prominent Calcium Channel Blockers, Current Organic Chemistry, 27 (2), 119-129.
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- **Giri NG**, Althagafi I, Ghatak T & Pratap R. (2023) One-Pot Synthesis of β-Ketoesters from Aryl Methyl Ketone via Ketene Dithioacetal, Chemistry Select, 2023, 8, e202302691
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- **Kumari P**, Yadav R, Sharma S, Yadav Y, Kumar R & Sagar R. (2024), Important Synthetic Development in the synthesis of C-Glycosides as Glycohybrids, Trends in carbohydrate research.(Accepted Review).
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DEPARTMENT OF COMMERCE

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- **Kharbanda S** & Singh NP. (2023) 'Promoting Eco-Friendly Consumption Through Strategies Which Influence Social and Psychographic Factors' in International Journal of Education, Modern Management, Applied Science & Social Science, Vol 5,Issue No.4 pp 73-80
- **Kharbanda S** & Tewari P. (2023) Consumer Behaviour Towards Single Use Plastics: An Empirical Study of College Students in Delhi NCR' in Journal of Business Studies Vol10, issue 1,, pp 44-56
- **Kharbanda S.** (2023) 'Role and Growth of Ecolabels In Promoting Green Consumption: An Analysis Of Indian Scenario' in International Journal of Advanced Research in Commerce, Management & Social Science, Volume 06, No. 03(II), July-September, 2023, pp 213-218.
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- Maurya S & Singh R. (2023) "Sustainability Reporting in India: A Review of Literature", International Journal of Advanced Research in Commerce, Management & Social Science (IJARCMSS), Vol. 6, No. 3 (II), pp. 186-196 (ISSN: 2581-7930)
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• Gautam KKS, Kumar R, Yadav R & Sharma P. (2023) "Investigation of the Internet of Things (IoT) Security and Privacy Issues," 5th International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India GB, 2023, pp. 1489-1494, doi: 10.1109/ICIRCA57980.2023.10220814.h

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- **Hangzo S.** (2023). "Magic, Agency and Social Discourse in Thanghou and Liandou: Analysing a Paite Folktale." Tribal Studies: A Journal of COATS, vol. 11, , pp. 5–13. ISSN 2321-3396.
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DEPARTMENT OF GEOGRAPHY

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- **Tiwari P.** (2023). Changing Diets and Food Choices: An Empirical Study on Awareness and Behaviour of Consumers In India, IOSR Journal Of Humanities And Social Science (IOSR-JHSS) Volume 28, Issue 12, Series 7 (59-66 e-ISSN: 2279-0837, p-ISSN: 2279-0845.www.iosrjournals.org
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DEPARTMENT OF HINDI

- Dr. Jyoti Sharma Published a paper in an International peer reviewed journal Tijer with the title -"Videshon me Hindi Bhasha aur Sanskriti ke shikshan ki paddhatiyan aur chunautiyan" year 2023 issn no. 2349-9249 vol- 10 issue- 7 score 8.57 2.
- Dr. Jyoti Sharma Published a paper in an International journal of Creative research thoughts peer reviewed year 2023- Topic -" Drishy Madhymon ki parikalpna: Swaroop aur Siddhant" issn no.- 2320-2882 vol 11 score 7.97 3.

- Dr. Jyoti Sharma Published a research paper in an International peer reviewed journal Tijer with the title "Samkaleen Nari Vimarsh aur stri prash year 2023, Issn no .- 2349-9249 score 8.57 4.
- Dr. Jyoti Sharma Published a paper in International Journal of Research and analytical review peer reviewed 2024 vol 10 issue -3 issn no 2349-5138 score 7.71
- Dr. Jyoti Sharma Published a paper with title "Hindi bhasha shikshan: nai taknikein aur pravidhiyan" peer reviewed year 23 vol 10 issue 3 issn no - 23 49-5138 journal name – IJRAR
- Dr. Tarun published a research paper titled "Bhartiya chintan ka vikas aur Mahatma Gandhi" published in Bilingual Peer Reviewed Refereed Journal of Social Science and Humanities SHODH edited by Kuldeep Panday, issue 20, April 2023.
- Dr. Tarun published a research paper titled "Cinema ki Sandarvatta aur Sanskargat Vivek " published in A Bilingual Peer Reviewed Refereed Journal 'The Equanimist' edited by Nisheeth Rai, issue 09, 2023-24.
- Dr. Tarun published a research paper titled "Smriti se Itihas ki Muthbhed aur Hindi Upanyas" in peer reviewed refereed journal Academos in 2023-24 ISSN: 2231-0584

DEPARTMENT OF HISTORY

- **Khan K.** (2023) Review of Michael Calabria's The Language of the Taj Mahal: Islam, Prayer and the Religion of Shah Jahan in Juni Khyat, Vol. 12 Issue 2, 2023 pp. 298-302.
- **Preeti** (2023). "Fractured' Peasantry in colonial Bihar in the late 19th and early 20th centuries: Reflections and Responses", Indian Historical Review, Vol. 50, Issue 2, Sage, New Delhi. https://doi.org/10.1177/03769836231209212

DEPARTMENT OF MATHEMATICS

- **Dr. Aparna Jain** published a paper titled "Prime ideal theorem for fuzzy lattices" published in "International journal of fuzzy logic and intelligent systems" in December 2023
- Rani N, Bamel K, Saini N, Gupta S, Nath RA, Sharma S & Mishra I. (2023) Non-destructive Fruit Volume Estimation using Digital Image Processing Techniques: A Systematic Review, Bulletin of Environment, Pharmacology and Life Sciences (accepted for publication in 13(1) December issue 2023).
- Rani N, Bamel JS, Shukla A, Pathak SK, Singh RN, Singh N, Gahlot S, Garg S & Bamel K. (2023) Linear Mathematical Models for Yield Estimation of Baby Corn (Zea mays L.) Plant Science Today, 11(1): 166–75 https://doi.org/10.14719/pst.2618
- Rani N, Garg S, Bamel K, Bhatt V, Sharma S, Mishra SK, Saini N & Saloni (2023) A
 Systematic Review and Comparative Meta-Analysis Of Non-Destructive Fruit
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- **Priyanka K**. (2024). Analyzing the Behavior of General Class of Estimators of Population Mean in Presence of Correlated Measurement Errors. Communications in Statistics Theory and Methods, 53:6, 2219-2235.
- **Priyanka K**, Trisandhya P & Kumar A. (2023). Evaluating the effect of measurement error under randomized response techniques of the sensitive variable in successive

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- S. D. Ram (Collaboration with Dhanpal Singh, Ekta Jain and Mithilesh Singh), Modelling of cylindrical blast waves with dust particles, book chapter-8, Modeling and Simulation of Fluid Flow and Heat Transfer,pp-110-125,CRC Press,2024. DOI: 10.1201/9781032712079-8
- **S. D. Ram** (Collaboration with Dhanpal Singh and Ekta Jain) The behavior of weak shock waves under the influence of weak gravitational field, Indian Journal of Physics, vol.98, pp-797-802, 2024. https://doi.org/10.1007/s12648-023-02864-z

DEPARTMENT OF PHYSICS

- **Dr. Bharti** authored proceedings paper 'Quantum capacitance of Mo2N MXene for supercapacitor applications' Bharti et al, Macromol. Symp. 2024, 413, 2200198.
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